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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/043,976

01/11/2002

Neil Doherty

600.1211

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23280

7590

03/24/2003

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EXAMINER

CRENSHAW, MARVIN P

ART UNIT

PAPER NUMBER

2854

DATE MAILED: 03/24/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/043,976

Applicant(s)

DOHERTY ET AL.

Examiner

Marvin P. Crenshaw

Art Unit

2854

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 January 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 January 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) /
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 - 7 and 10 - 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Wirz.

Wirz teaches a roll for a web printing press (Fig. 6) comprising a cylindrical drum (Fig. 6) and a porous layer (11) disposed at a circumference of the drum and configured to provide a pathway for air (Fig. 11) from a first location (air coming in through the end of the roll) between the roll and a web (14) passing over the chill roll and a second location (3) having a lower air pressure.

With respect to claim 2, the porous layer is attached (See col. 7, lines 10-15) to a circumferential surface of the drum.

With respect to claim 3, the porous layer is integral (Fig. 11) with a circumferential surface of the drum.

With respect to claim 4, the porous layer forms a circumferential surface of the drum (Fig. 6).

With respect to claim 5, the pathway is configured to enable the air to move in a radial (Fig. 11) direction.

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With respect to claim 6, the pathway (3) is further configured to enable the air to move in at least one of a lateral and circumferential direction.

With respect to claim 7, the porous layer includes a matrix material.

With respect to claim 10, the porous layer (Fig. 11) defines at least one of a hole (32), a slot (30) and a tube (3) so as to provide the pathway.

With respect to claim 11, the porous layer includes a material having a high thermal conductivity (See col. 4, lines 5-40).

With respect to claim 12, the porous layer includes at least one of steel, aluminum and copper (See Col. 3, lines 5-16).

With respect to claim 13, the porous layer has a thickness of from about 1 mm to about 2.5 mm (See Col. 6, lines 34 – 39).

With respect to claim 14, the second location (Fig. 11) is at a lateral edge of the drum.

With respect to claim 15, the air is entrained at the first location (Fig. 11).

With respect to claim 16, the pathway (3) is configured to enable the air to move from the first location so as to improve a heat transfer between the web and chill roll.

With respect to claim 17, the drum (Fig. 11) defines a coolant inlet and a coolant outlet configures for circulating through an interior space defined by the drum.

With respect to claim 18, a printing press comprising a cylindrical roll (Fig. 11) including a porous layer (11) disposed at a circumference of the roll and configured to provide a pathway for air from a first location between the chill roll and a web passing over the chill roll and a second location having a lower air pressure.

With respect to claim 19, the pathway (3) is configured to enable the air to move from the first location so as to improve a heat transfer between the web and the roll.

With respect to claim 20, the pathway (3) is configured to enable the air move in a radial direction (Fig. 11) and in at least one of a lateral and a circumferential direction.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wirz in view of McCartney et al.

Wirz teaches all that is claimed in the above rejection, as applied to claim 1-7 and 10-20 above, except the porous layer is a fibrous and of foam material.

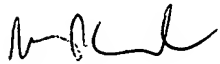
McCartney et al. teaches the use of a porous layer including a fibrous and foamed material (See col. 6, lines 4-17). It would have been obvious to modify the roll of Wirz to have a porous layer being fibrous and made of a foam material as taught by McCartney et al. so as to reduce the mechanical shocks when transporting the medium.

Conclusion

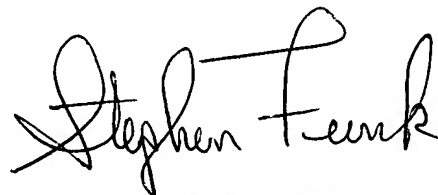
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marvin P. Crenshaw whose telephone number is (703) 308-0797. The examiner can normally be reached on Monday - Friday 7:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Hirshfeld can be reached on (703) 305-6619. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



MPC
March 19, 2003



STEPHEN R. FUNK
PRIMARY EXAMINER